

ENVIRONMENTAL TECHNOLOGY

Competencies:

Upon completion of the program, the graduate can:

1. Perform sampling and/or basic analysis of air, water, soil and other environments.
2. Demonstrate the proper handling of laboratory equipment and supplies.
3. Demonstrate an understanding of the characteristics and sources of various pollutants and their effects on living and nonliving things.
4. Demonstrate an understanding of the relationships between natural resources and pollution.
5. Demonstrate an understanding of the relationships between pollution and community wellness.
6. Demonstrate an understanding of the principles of epidemiology and their impact on community health.
7. Demonstrate an understanding of prevention and control of communicable disease.
8. Demonstrate an understanding of the sanitary principles and control methods involved in various community sanitation activities.
9. Utilize aseptic technique.
10. Demonstrate an understanding of the principles and methods of water supply development and protection.
11. Demonstrate an understanding in the techniques used in the measurement of wastewater flow and collection of samples.
12. Analyze current technology related to solid waste disposal procedures and state when each procedure could be used effectively.
13. Demonstrate a basic understanding of the meaning, value and use of statistics as is applicable to sampling and analyzing various environmental parameters.
14. Apply knowledge of state and federal environmental legislation and agencies.
15. Perform decision-making and management skills.
16. Communicate effectively using standard written English;
17. Communicate in a clear oral and non-verbal fashion and employ active listening skills;
18. Demonstrate basic skills in computer operations and/or software applications;
19. Organize, analyze, and make information useful by employing mathematics;
20. Demonstrate an awareness of one's interaction with the biological/physical environment;
21. Demonstrate an awareness of self as an individual, as a member of a multicultural society, and/or as a member of the world community;
22. Recognize the impact of decisive ideas and events in human heritage;
23. Develop and perform basic search strategies and access information in a variety of formats, print and non-print;
24. Analyze, summarize, and interpret a variety of reading materials;
25. Think critically and make connections in learning across the disciplines;
26. Elaborate upon knowledge to create new thoughts, processes and/or products; and,
27. Demonstrate an awareness of ethical considerations in making value choices.